BLAUPUNKT

CD - CHANGER

CDC - A 071
7 607 700 002
CDC - A 072
7 607 700 003

BLAU -03947

8 622 401 371 BN 09/97

Kundendienstschrift • Service Manual

CLASS 1
LASER PRODUCT

UNSICHTBARE LASERSTRAHLUNG
NICHT DEM STRAHL AUSSETZEN
LASER KLASSE 3B

(D) VORSICHT!

Das Gerät beinhaltet eine Laserkomponente! Im Servicefall nachfolgende Hinweise beachten:

- Das Gerät arbeitet mit unsichtbarem Laserstrahl. Bei geöffnetem Gerät tritt im Bereich des Plattenfaches Laserstrahlung aus.
- Nicht in den Strahl blicken.
- Unbeteiligte Personen vom Arbeitsplatz fernhalten.
- Der Betrachtungsabstand darf 13 cm nicht unterschreiten.
  Kann dies nicht eingehalten werden, muß eine geeignete Laserschutzbrille getragen werden.

(F) ATTENTION!

Cet appareil contient un composant laser! Pour effectuer le service, veuillez observer les instructions suivantes:

- L'appareil fonctionne avec un rayon laser invisible. Risque de rayonnement invisible en enlevant le couvercle, prés du compartiment de disque.
- Eviter tout contact direct avec le rayon laser.
- Accès au place de travail interdit aux personnes étrangères au service.
- La distance de vue ne doit pas être inférieure à 13 cm.
  Quand cette distance n'est pas assurée, veuillez utiliser des lunettes protectices appropriées.

(GB) CAUTION!

This unit contains a laser component! For servicing observe the following important instructions:

- The unit operates with an invisible laser beam. When the cover is removed, invisible laser beams are apparent near the disc compartment,.
- Avoid direct eye contact with these beams.
- Keep persons not concerned away from the work bench.
- The viewing distance should not be less than 13 cm.
  If this distance cannot be ensured, use suitable laser safety goggles.

(E) ATENCIÓN!

Este aparato incluye un componente laser! En caso de servicio, sivase Vd. observa las siguientes medidas de precaución:

- El aparato funciona con un rayo laser invisible. Riesgo de radiación invisible, cerca del hueco del disco, aqu itar la tapa.
- Evitar todo contacto directo con el rayo laser.
- Acceso al puesto de trabajo prohibido a personas ajenas al servicio.
- La distancia de vista no debe estar inferior a 13cm.
  Al no observar dicha distancia, le recomendamis que utilice gafas de protección.

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Technische Daten:

Laser Diode

Material ..... GaAlAs
Wellenlänge ..... 780 nm

CD - Teil

Digital Filter ..... 8 - Fach Oversampling
D / A Converter ..... 1 Bit
Klirrfaktor ..... 0,005 % typisch (1kHz)
Übersprechdämpfung ..... 85 dB / 1kHz typisch
Signal / Rauschabstand ..... 94 dB bewertet
Frequenzgang ..... 5 - 20 000 Hz ± 1dB

Allgemeines

Ausgangsspannung ..... 2 Volt ± 2dB
Betriebsspannung ..... 14,4 V DC
Stromverbrauch ..... 0,8 A
Abmessungen B/H/T ..... 250 x 80 x 173mm
Gewicht ..... 2 kg

Technical data:

Laser Diode

Material ..... GaAlAs
Wavelength ..... 780 nm

Disc Section

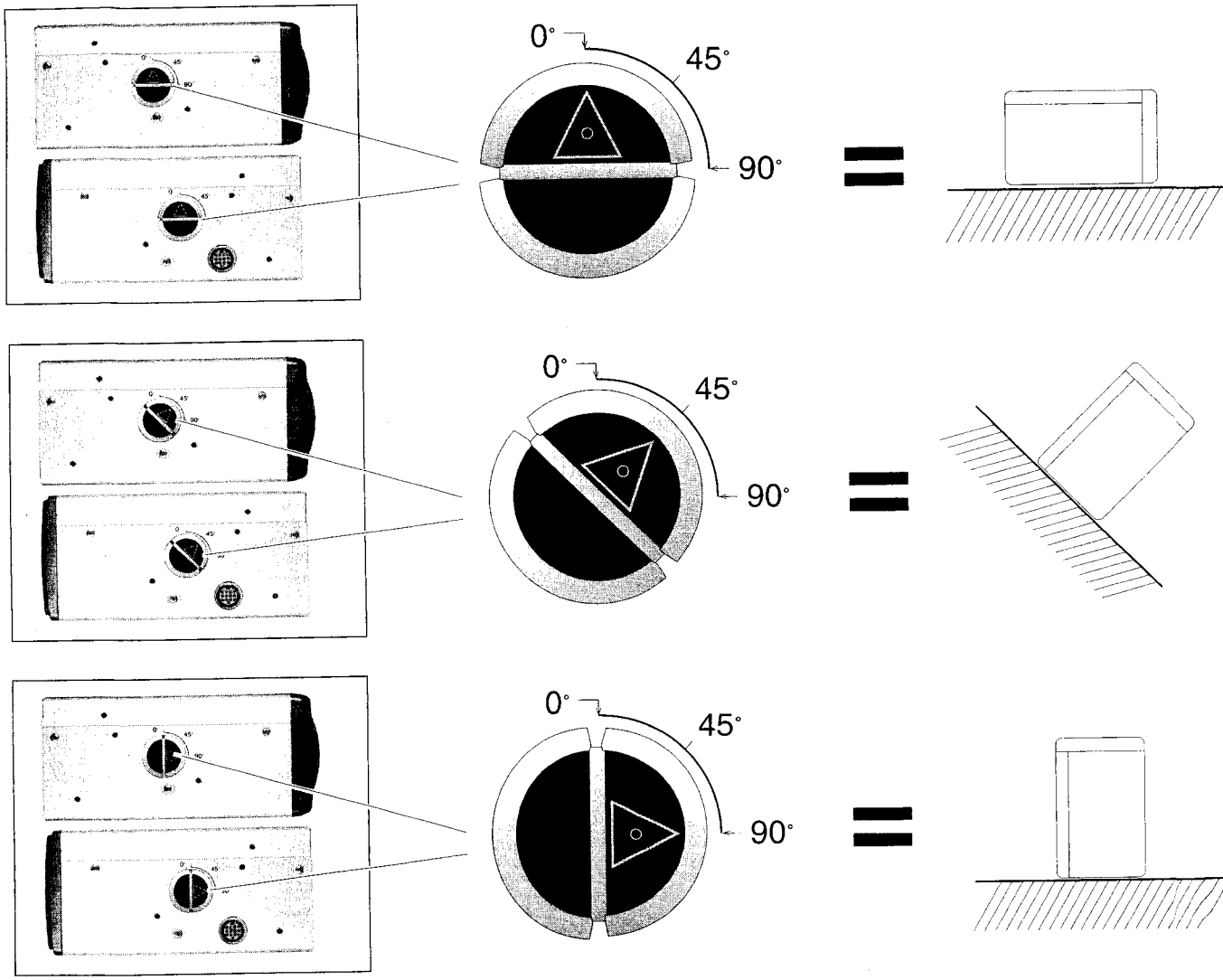
Digital filter ..... 8-times over-sampling
D / A converter ..... 1 bit
Distortion factor ..... 0.005% typical (1kHz)
Crosstalk attenuation ..... 85 dB/1kHz typical
Signal to noise ratio ..... 94 dB weighted
Frequency response ..... 5 - 20 000 Hz ± 1dB

General

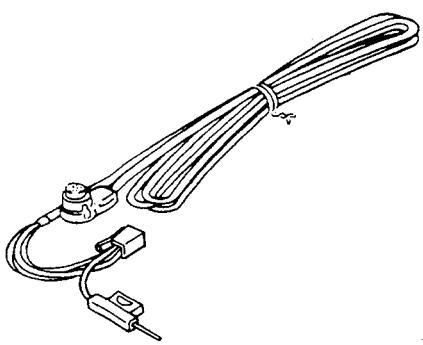
Output voltage ..... 2 Volts ± 2dB
Operating voltage ..... 14.4 V DC
Current consumption ..... 0.8 A
Size (W x H x D) ..... 250 x 80 x 173mm
Weight ..... 2 kg

(D) Einbauhinweise

(GB) Fitting instructions



CDC A071



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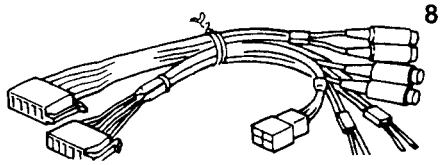

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CDC A072

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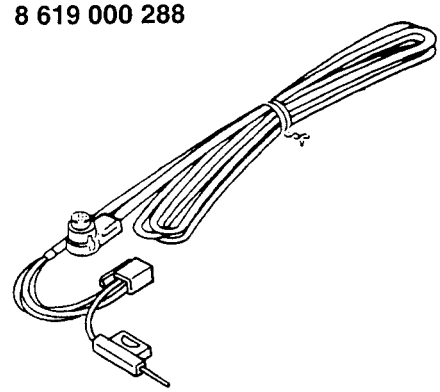


(D) Initialisierung des Positions - Gebers (Linear Position Sensor)

Wenn die Mechanik um den LPS demontiert, oder die PC - Platine abgebaut wurde, muß nach dem Zusammenbau die Anfangs-position des LPS neu initialisiert werden.

1. Verbinden Sie den CD - Wechsler mit einem der Autoradios, die in der unten aufgeführten Liste erscheinen.

(GB) Initialisation of the Linear Position Sensor

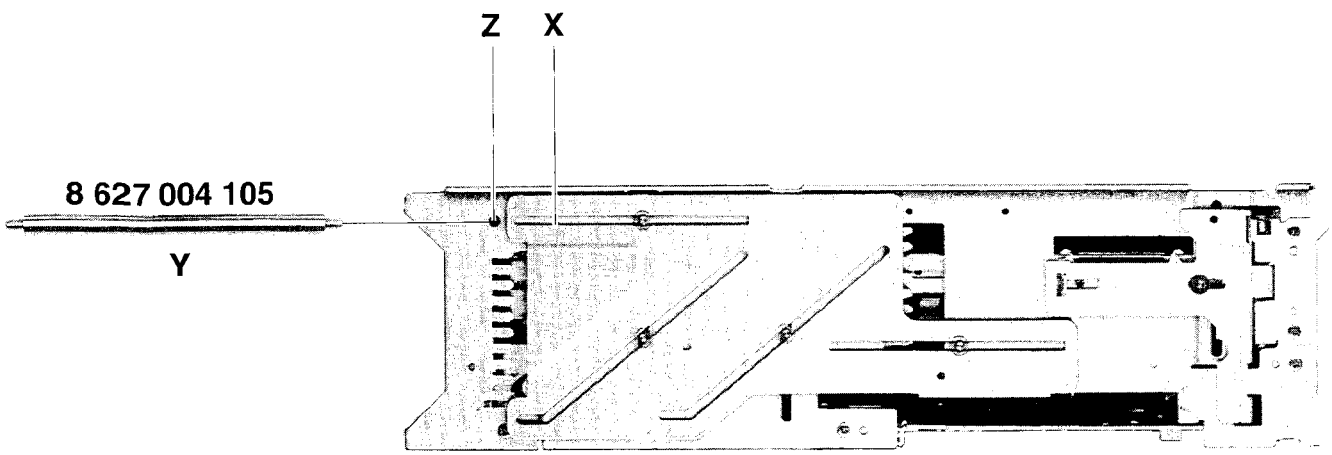
If the mechanism around the LPS had been dismantled or if the p. c. board had been removed it is necessary to initialize the start position of the LPS after reassembly.

1. Connect the CD changer to one of the car radios listed below.

CDC A071	CDC A072
Heidelberg RCM 126 Köln RCM 126 London RDM 126 München RDM 126 San Franscisco RDM 127 Stockholm RCM 126 Sydney RCM 126 Toronto RDM 126 Washington RCM 127	Arizona RCM 127 Cannes RCM 127 Coburg RCM 127 Casacblanca RCM 127 Düsseldorf RCM 127

2. Schalten Sie das Autoradio ein.
3. Entnehmen Sie ein eventuell vorhandenes CD-Magazin aus dem CD-Wechsler.
4. Halten Sie den "EJECT" Knopf des CD-Wechslers gedrückt und schalten Sie das Autoradio aus und sofort wieder ein (der "ECECT Knopf sollte noch ca. 5 Sekunden gehalten werden).
5. Betätigen Sie die Taste "SRC" des Autoradios bis der CD-Mode erscheint.
6. Bedienen Sie nun die Tasten für die CD-Anwahl, der Lift des CD-Wechslers sollte sich nun nach oben oder unten bewegen. Sollte dies nicht der Fall sein, so wiederholen Sie nochmals ab dem Punkt **4.**
7. Stecken Sie das Werkzeug **Y** in die Aussparung **Z**.
8. Betätigen Sie die CD-Anwahl aufwärts/abwärts des Autoradios solange, bis der Hebel **X** an das Werkzeug **Y** stößt.
9. Nun betätigen Sie die Taste "SCAN" des Autoradios solange, bis die Mechanik sich automatisch zum Anfangspunkt bewegt (CD - Magazin IN)
   Damit ist die Initialisierung beendet.

2. Switch the radio on.
3. Remove a CD magazine that could possibly still be inside the changer.
4. Press and hold on to the "EJECT" push-button of the CD changer while you switch the car radio off and back on immediately (hold on to the "EJECT" push-button for another 5 seconds).
5. Press the "SRC" push-button of the car radio until the CD mode appears.
6. Now operate the push-buttons for CD selection. The elevator in the changer should now move up or down.
   If this should not be the case repeat the procedure starting from point 4 onwards.
7. Apply the tool Y into the hole Z. .
8. Operate the CD selection up/down until the lever X runs against the tool Y.
9. Now press the push-button "SCAN" of the car radio until the mechanism moves autocally to its initial position.
   (CD magazine IN)
   This ends the process of initialisation.



Pos.	Type No.	Use and Function	Operation and Condition
IC1	PC2572A	RF amp & error amp	RF amplifier, focusing/tracking error amplifier, APC circuit, reference amplifier, mirror circuit, defect circuit, RF OK circuit, EFM comparator and vibration detector circuit.
IC2	µPD63702	Digital servo data processor	Digital servo data processor, 8fs oversampling filter, D/A converter, digital loop filter.
IC3	NJM4565M	AF Preamplifier	
IC4	TA78L05F	3-pin regulator	Supplies 5 V to the digital servo data processor.
IC5	NJM78L08UA	3-pin regulator	Supplies 8 V to the af preamplifier.
IC6	M38067MCD	system processor	
IC7	PST9140NR	Reset IC	
IC8	BA6791FP	Motor driver, optical pick up power supply	Drives the focusing/tracking coils, spindle motor and loading/disc motor.
IC9	BA6287F	Motor driver	Drives the mechanism deck up-down motor.
IC10	M5278D05	3-pin regulator	5 V power supply for the servo circuit.
IC11	BR93LC46AF	Memory IC	Storage of data on the initial position of the mechanism deck up-down operation.
Q1	2SA1362(Y)	Laser control	Controls the laser current according to the voltage output from the IC1 LD terminal.
Q2	DTC124EK	Clock ON/OFF	Clock is turned OFF when the IC6 XOFF terminal outputs „H".
Q3 Q4	2SD2114K	Audio muting	Muting is turned ON when IC6 A.MUTE outputs „L".
Q5	DTA124EK	Audio muting	Muting is turned ON when IC6 A.MUTE outputs „L".
Q12	DTC114EK	LPS power SW	Goes ON when LPSCO of IC6 goes „L" at P-ON or during up-down operation.
Q15	2SC2412K	U-CDC power	Switch the changer on, if the radio goes on.
Q22	2SB1565	U8 regulator	
Q23	2SC2412K	U8 regulator	
Q25	2SB1188	switch U51	Turned ON/OFF by P-ON.
Q27	DTA143EK	switch U8	Turned ON/OFF by P-ON.

(D) Adressen IC6 Mikrocomputer

(GB) Microcomputer´s (IC6) Terminal Description

Pin No.	I/O	Name	Pin Type	Function
1	I	HOT	A/D converter	High temperature detection terminal.
2	O	SP/LO-	Buffer	disc/loading motor output -.
3	O	SP/LO+-	Buffer	disc/loading motor output +.
4	O	DMUTE	Buffer	Driver muting.
5	I	LOESW	Buffer	Loading end switch input.
6	I	LIMSW	Buffer	Limit switch input.
7	I	BU_DET	Buffer	B-U detection.
8	O	AMUTE	Buffer	Audio muting output.
9	O	SCK	Buffer	Clock output to servo IC.
10	O	SDO	Buffer	Data output to servo IC.
11	I	SDI	Buffer	Data input from servo IC.
12	O	DGCON	Buffer	Digital output control (not used)
13	O	ELV-	Buffer	Up-down motor output -.
14	O	ELV+	Buffer	Up-down motor output +.
15	I	ARM_SW	Buffer	Arm SW input.
16	I	MGSW	Schmitt trigger	Magazine switch input.
17	I	EJSW	Schmitt trigger	Eject switch input.
18	I	SBSY	Schmitt trigger	Subcode Q input timing detection input.
19	O	CLKOUT	Buffer	Changer clock output.
20	O	ASCI	Buffer	ASCI output.
21	O	DATOUT	Buffer	Changer data output.
22	O	S-OUT		
23	I	S-IN		
24	I	CLKIN	Schmitt trigger	Changer clock input.
25	O	DATIN	Schmitt trigger	Changer data input.
26		CVN_{ss}		
27		RESET		
28	I	CDC ON	Schmitt trigger	Changer will be on, if the radio on.
29				n.c.
30	I	XIN		Main clock (7.37 MHz) input.
31	O	XOUT		Main clock (7.37 MHz) output.
32		VSS		Ground potential.
33		DB7		
34		DB6		
35		DB5		
36		DB4		
37		DB3		
38		DB2		
39		DB1		
40		DB0		
41		AD15		
42		AD14		
43		AD13		
44		AD12		
45				n.c.
46		AD10		

(D) Adressen IC6 Mikrocomputer

(GB) Microcomputer´s (IC6) Terminal Description

Pin No.	I/O	Name	Pin Type	Function
47		AD9		
48		AD8		
49		AD7		
50		AD6		
51		AD5		
52		AD4		
53		AD3		
54		AD2		
55		AD1		
56		AD0		
57		RD		
58		WR		
59				n.c.
60		6/10		n.c.
61		TEST in		
62		ONW		
63	O	ECS	Buffer	EEPROM chip select output.
64	O	ECKL	Buffer	EEPROM clock output.
65	O	EDO	Buffer	EEPROM data output.
66	I	EDI	Buffer	EEPROM data input.
67		TEST out		
68	O	PON	Buffer	P-ON output.
69	O	XOFF	Buffer	Servo IC oscillation OFF control output.
70	O	RST	Buffer	Reset output to servo IC.
71	O	A0	Buffer	A0 output to servo IC.
72	O	STB	Buffer	Strobe output to servo IC.
73		VCC		Positive power supply.
74		VREF		Reference input voltage of A/D converter.
75		AVss		
76	I	RFOK	Buffer	RF OK.
77	O	TBCO	Buffer	Tracking filter bank switching output.
78	I	TBCI	Buffer	Tracking filter bank switching input.
79	O	LDON	Buffer	Laser diode ON.
80	I	LPS	A/D converter	Linear position sensor.

(D) Demontage

Zahnradposition des Liftmotors, des Laser-Antriebsmotors und der Antriebsachse

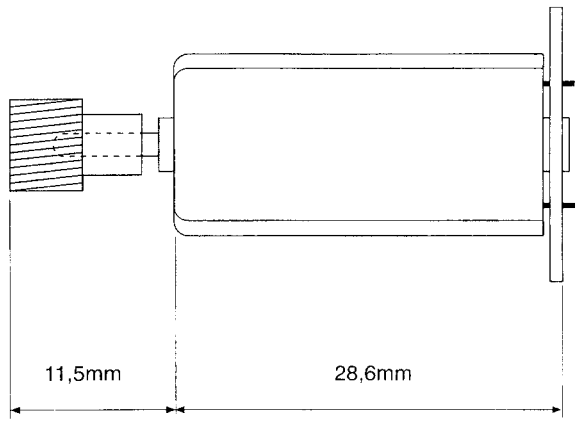
Die Zahnräder vom Liftmotor, Laser-Antriebsmotor und der Antriebsachse sollten im Austauschfall die unten aufgeführten Toleranzen nicht unterschreiten.

(GB) Disassembly

Cogwheel position of elevator motor, sled motor and drive shaft

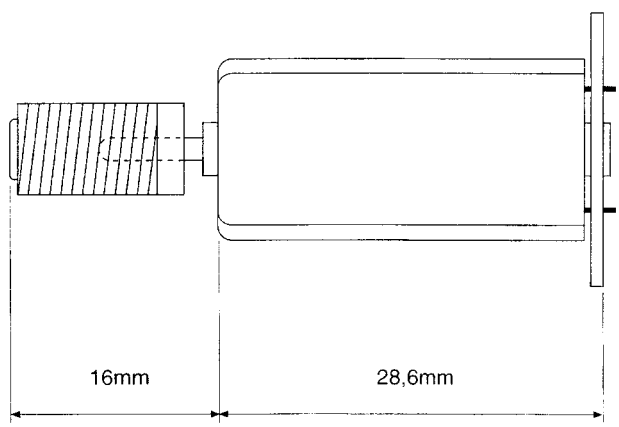
In a case of replacement the spacing of the cogwheels of the sled motor and the drive shaft should not exceed the specified tolerances. .

Laser-Antriebsmotor/Sled motor



Antriebsachse/ Drive shaft

Liftmotor/Elevator motor



(D) 1.0 Demontage Gehäuse

(GB) 1.0 Disassembly Casing

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Gehäusehälfte (A), Casing side (A)			
Schrauben (6xB) Screws (6xB)	abschrauben unscrew		1 + 2
Gehäusehälfte (A) Casing side (A)		Gehäusehälfte (A) nach oben abheben. Lift up casing side (A)	3

Fig 1

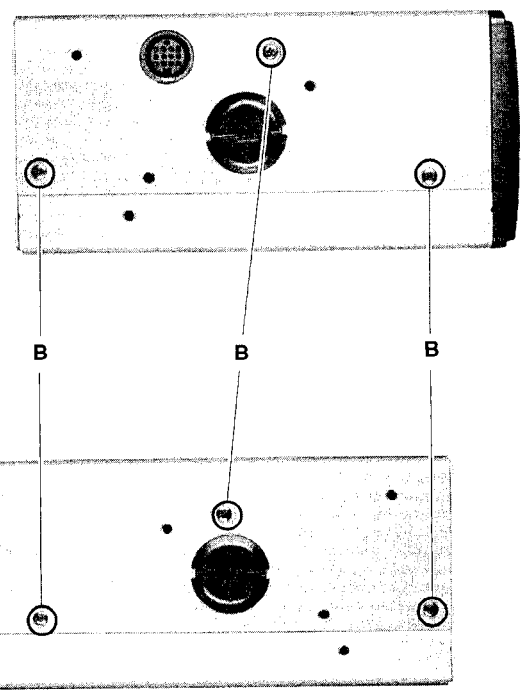
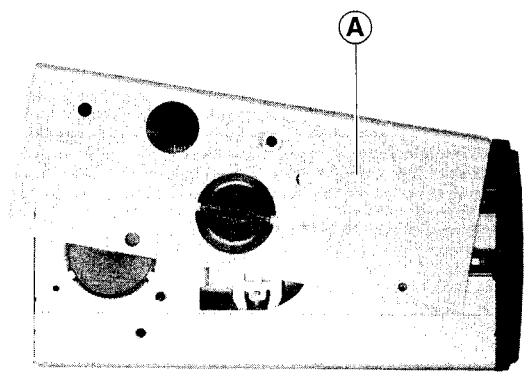


Fig 2

Fig 3

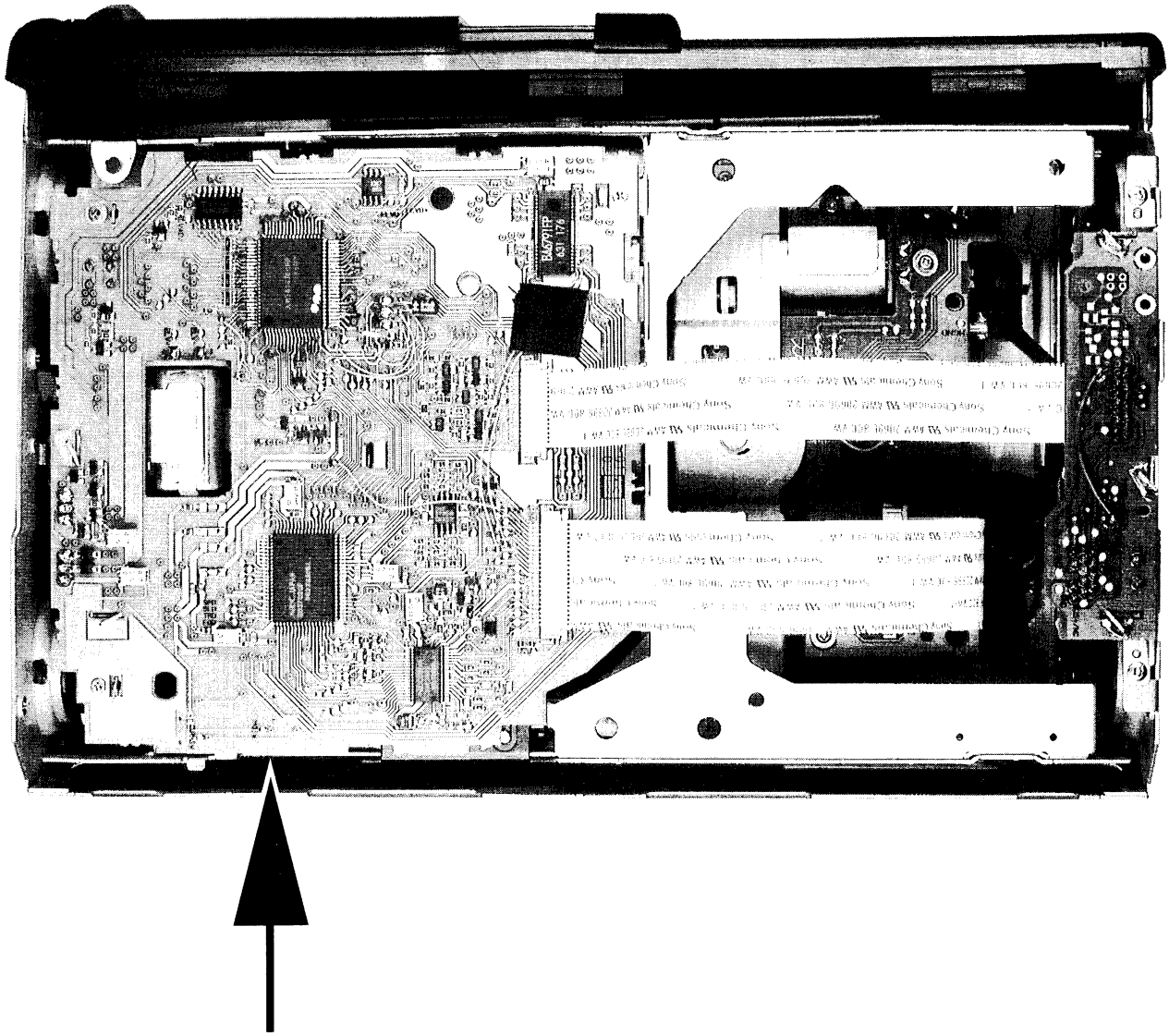


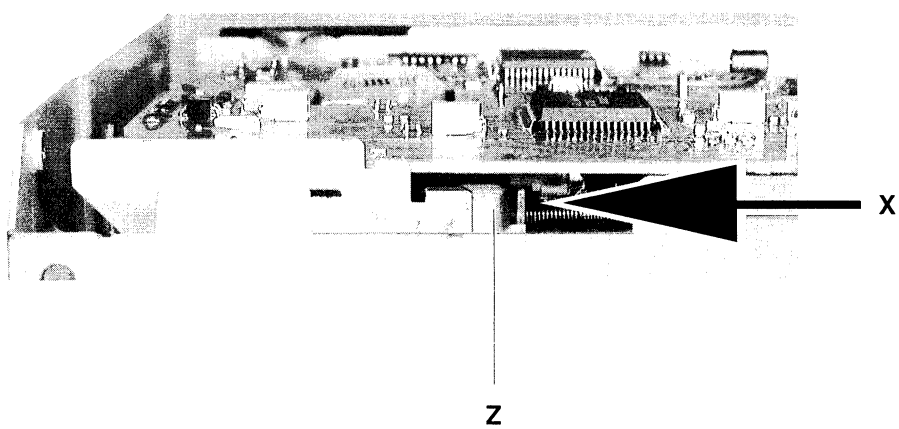
(D) 2. CD-Magazin entnehmen (ohne Betriebsspannung)

Mit einer Schraubendreherklinge den Hebel **(Z)** in richtung des Pfeiles **(X)** drücken bis das Changer-Magazin hörbar ausrastet.

(GB) 2. Extraction of the CD-magazine (without operating voltage)

Use the shaft of a screw driver to push the lever **(Z)** in the direction of the arrow **(X)** until the magazine of the changer audibly unlocks.



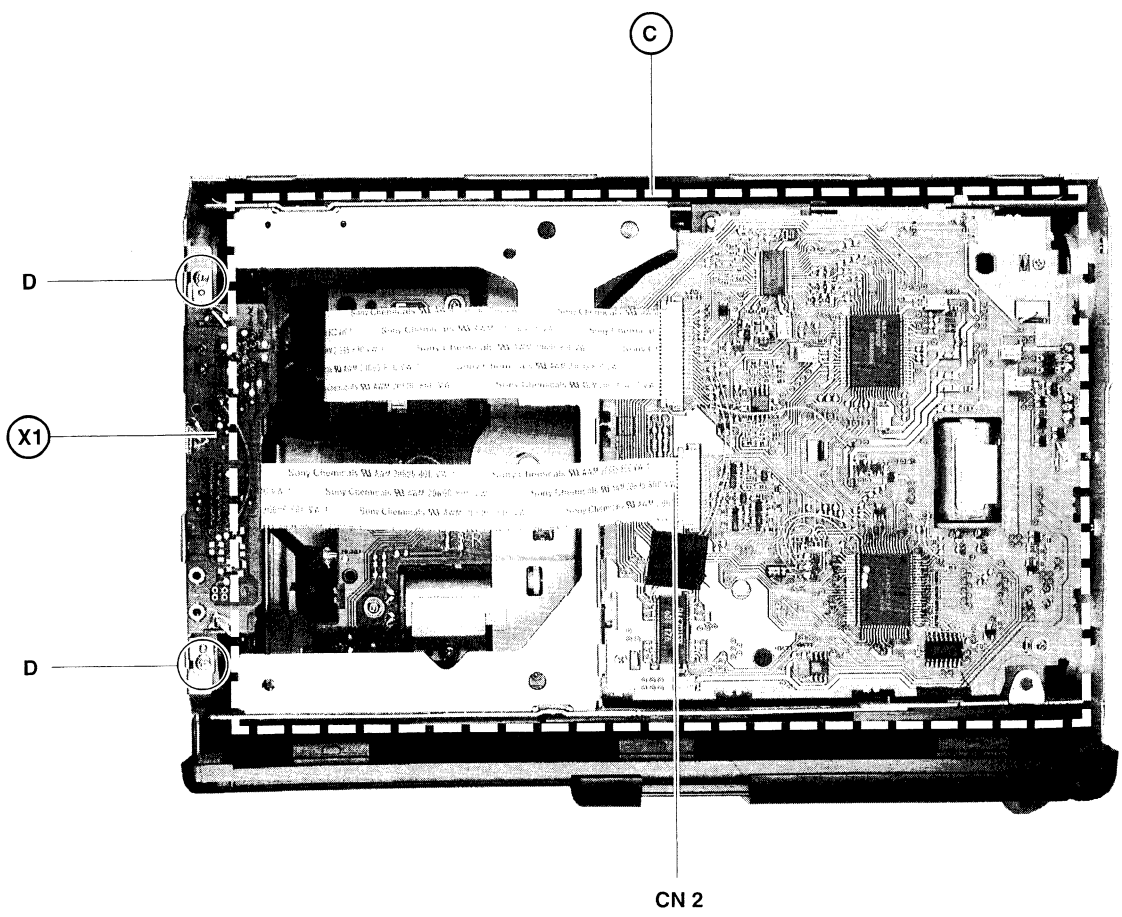


(D) 1.1 Demontage Gehäuse

(GB) 1.1 Disassembly Casing

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Chassis (C), Chassis (C)			
Schrauben (2xD) Screws (2xD)	abschrauben unscrew		4
CN 2 CN 2	abziehen unplug		4
Buchsenplatine (X1) Jack-board (X1)		Buchsenplatine (X1) vorsichtig entnehmen. Carefully extract jack-board (X1). .	4
Dämpfer (4xE) Damper (4xE)	abziehen unplug		5 + 6
Feder (2xF) Spring (2xF)	aushängen remove		5 + 6
Hebel (2xG) Lever (2xG)	entfernen remove		5 + 6
Chassis (C) Chassis (C)		Chassis (C) vorsichtig nach oben herausnehmen. Carefully lift up and extract Chassis (C).	4

Fig 4



(D) 1.1 Demontage Gehäuse

(GB) 1.1 Disassembly of casing

Fig 5

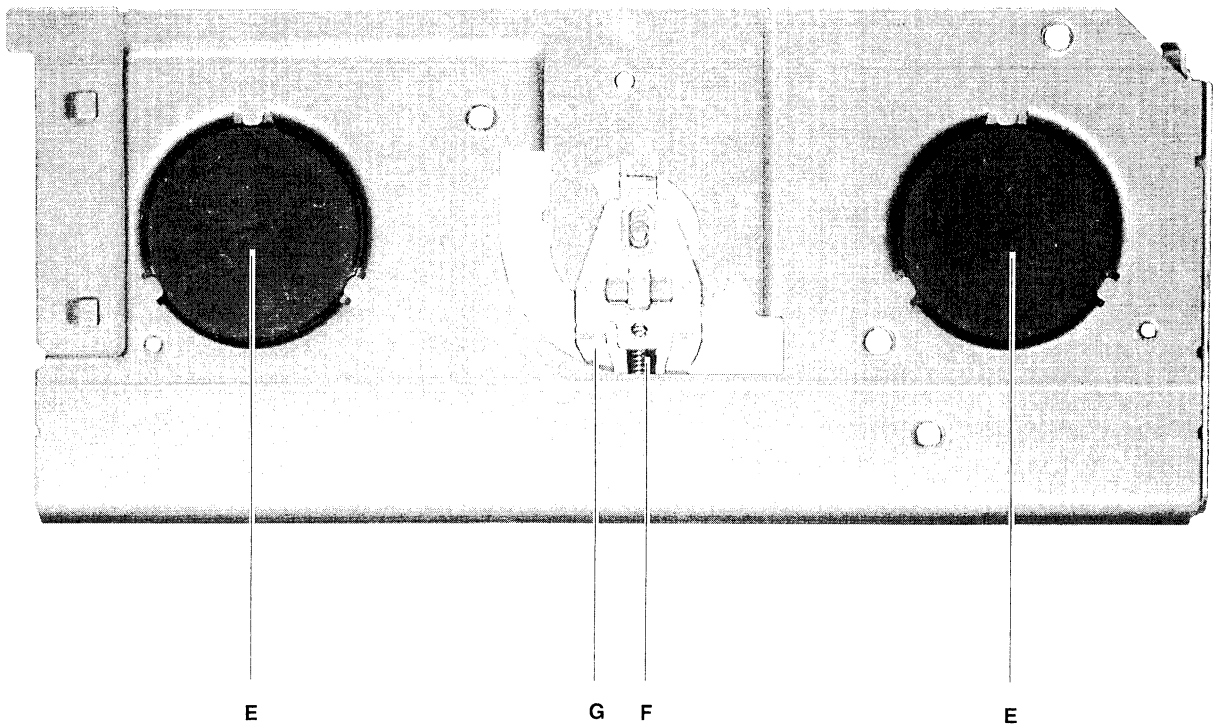
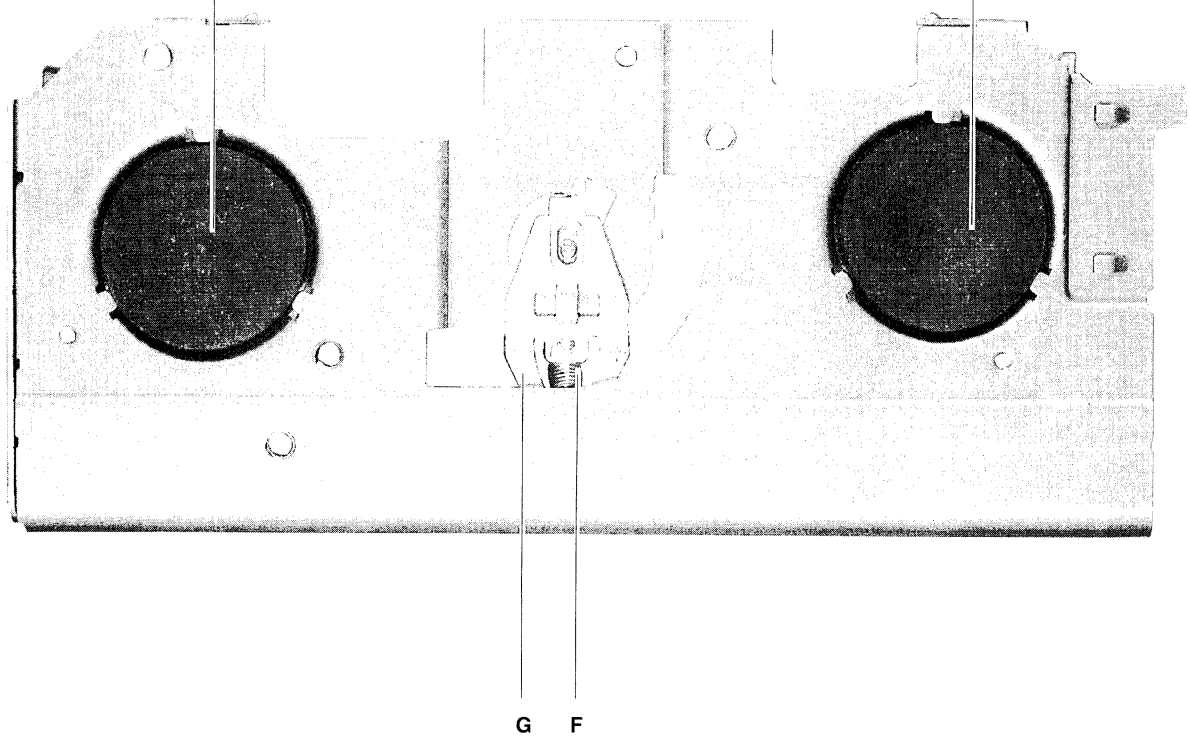


Fig 6



(D) 3. Demontage Signalplatine

(GB) 3. Disassembly of signal p. c. board

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Signalplatine (K), signal p. c. board (K)			
CN 1 CN 1	abziehen unplug		7
Schrauben (5xH) Screws (5xH)	abschrauben unscrew		7 + 7a
Lötstellen (J) Soldering points (J)	ablöten unsolder		7
Signalplatine (K) Signal p. c. board (K)		Leiterplatte (K) vorsichtig nach oben entnehmen. Lift up and carefully extract the p.c. board (K).	7

Fig 7

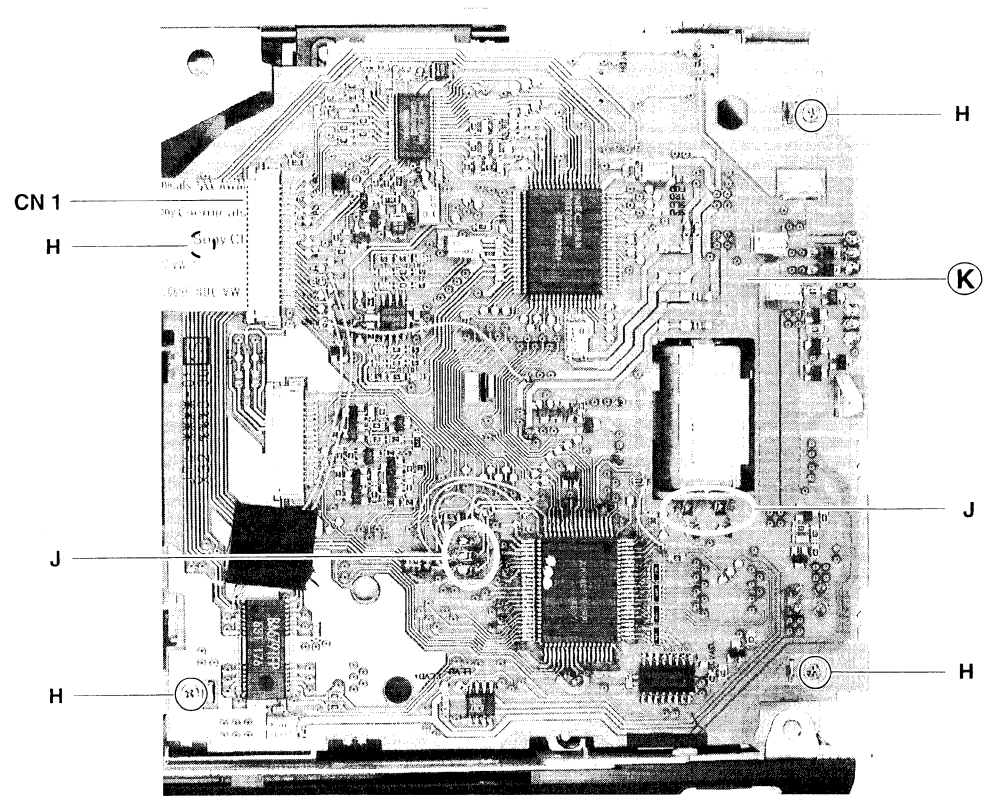
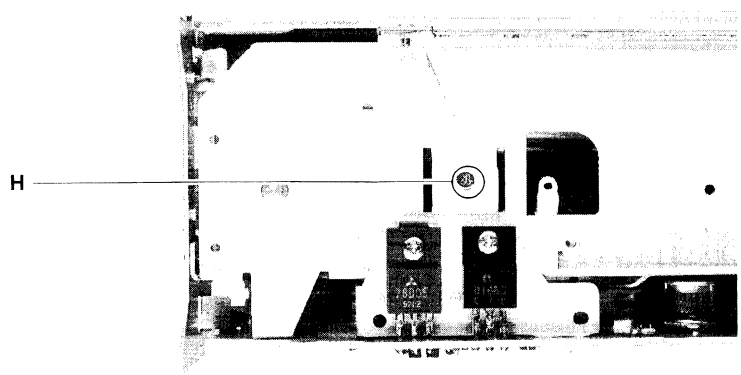


Fig 7a



(D) 3.1 Montage Signalplatine

Beim Einbau der Signalplatine (K) ist darauf zu achten, daß die Schalter **S1** und **S3** (Fig 7b) nicht beschädigt werden.

1. Den Lift in Stellung **"Eject Changermagazin"** befördern.
2. Danach den Hebel **A1** in Richtung des Pfeils **B1** schieben (Fig 7c+d) und gleichzeitig die Signalplatine (K) auf das Chassis **C1** setzen.
3. Der weitere Zusammenbau geschieht in umgekehrter Reihenfolge zum Kapitel 3 **Demontage Signalplatine**.

(GB) 3.1 Assembly of signal p. c. board

When assembling the signal p. c. board be careful not to damage the switches **S1** und **S3** (fig 7b).

1. Put the elevator into the position "magazine eject "
2. Then push lever **A1** in the direction of arrow **B1** (fig 7c+d) and at the same time place the signal p. c. board on the chassis **C1**.
3. The completion of the assembly is performed in reverse order of the description given in chapter 3 "**Disassembly of signal p. c. board**".

Fig 7b

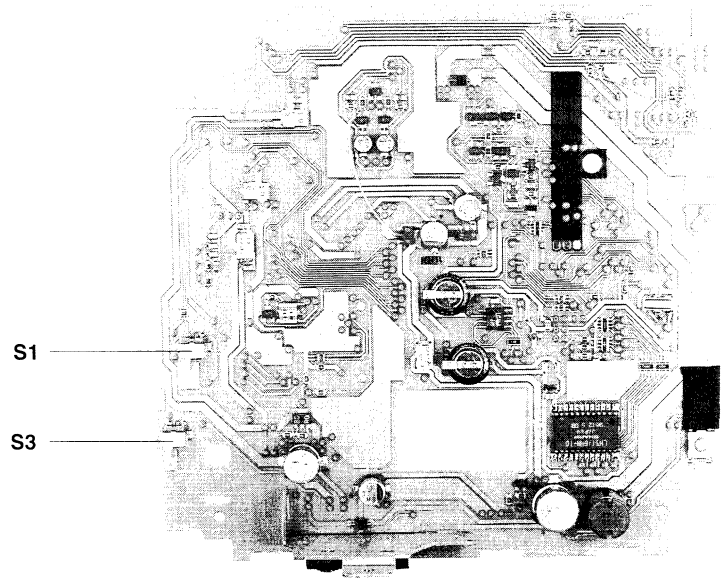


Fig 7c

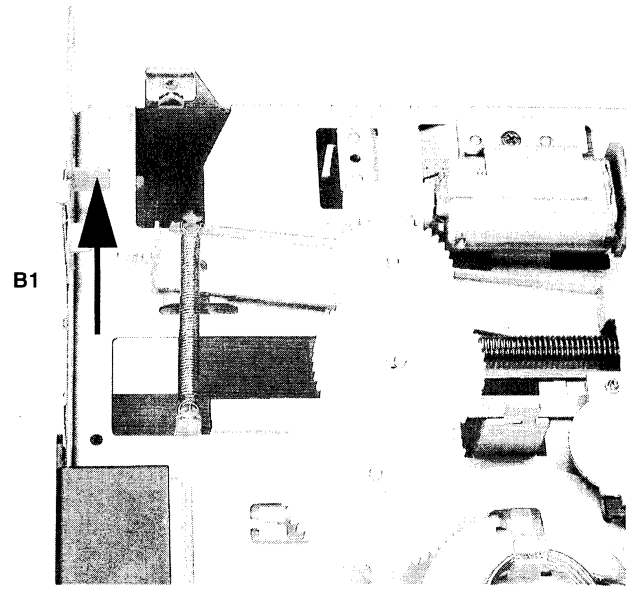
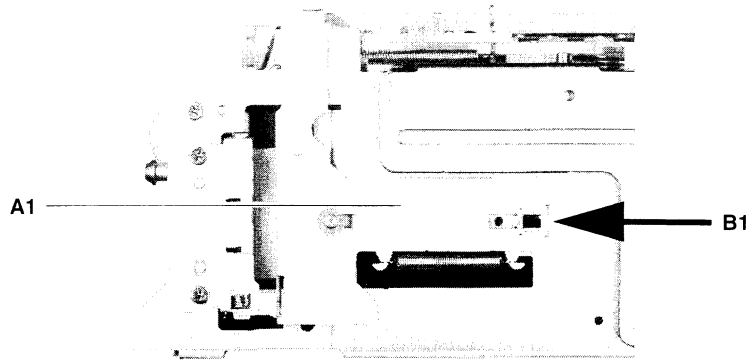


Fig 7d

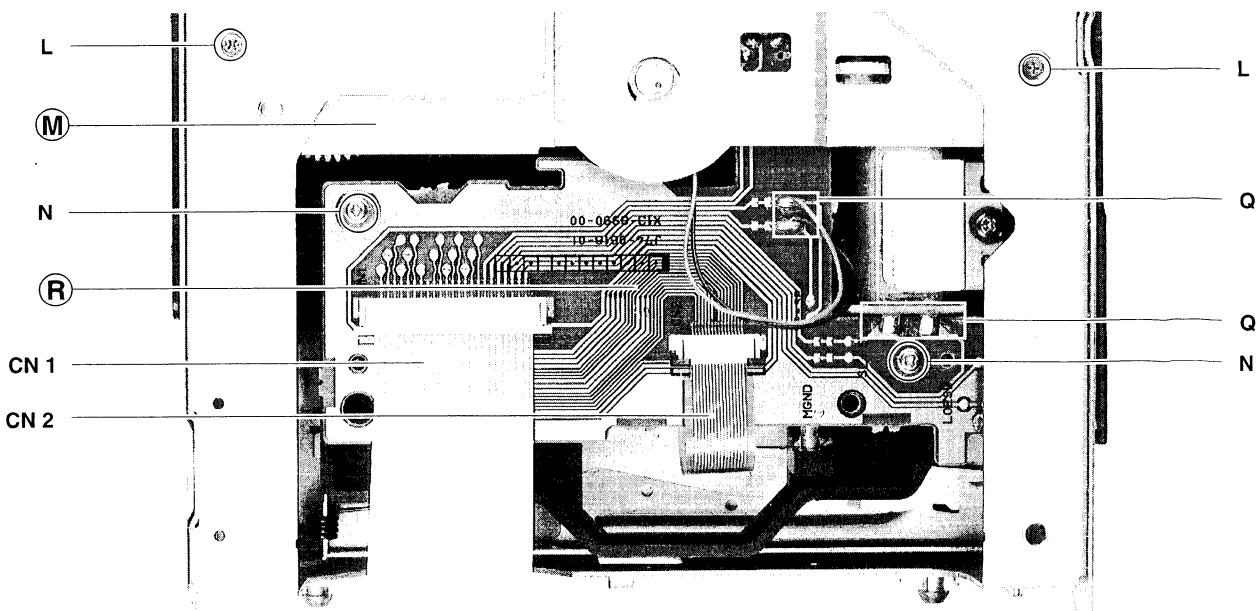


(D) 4. Demontage Laserplatine

(GB) 4. Disassembly Laser p. c. board

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Laserplatine (R), Laser p. c. board (R)			
Schrauben (2xL) Screws (2xL)	abschrauben unscrew		8
Hebel (M) Lever (M)	entfernen remove		8
CN 1 + CN 2 CN 1 + CN 2	abziehen unplug		8
Schrauben (2xN) Screws (2xN)	abschrauben unscrew		8
Lötstellen (Q) Soldering points (Q)	ablöten unsolder		8
Laserplatine (R) Laser p. c. board (R)		Laserplatine (R) vorsichtig nach oben entnehmen. Carefully lift up and extract the laser p. c. board (R)	8

Fig 8



(D) 4.1 Montage Laserplatine

Beim Einbau der Laserplatine ist darauf zu achten, daß die Schalter **S1** und **S2** (Fig 8a) nicht beschädigt werden.

1. Die Ântriebsachse **C1** ist so einzustellen, daß der Hebel **D1** (Fig 8b) sich in der Mitte der Antriebsachse befindet.
2. Die Laserplatine R (Fig 8a) vorsichtig in das Chassis einsetzen.
3. Der weitere Zusammenbau geschieht in umgekehrter Reihenfolge zum Kapitel 4 **Demontage Laserplatine**.

(GB) 4.1 Assembly of the laser p. c. board

When assembling the laser p. c. board be careful not to damage the switches S1 und S2 (Fig 8a).

1. Adjust the drive shaft **C1** such that lever **D1** (fig 8b) is located in the middle section of the drive shaft.
2. Carefully place the laser p. c. board R (Fig 8a) into the chassis
3. The completion of the assembly is performed in reverse order of the description given in chapter 4 "**Disassembly of laser p. c. board**".

Fig 8a

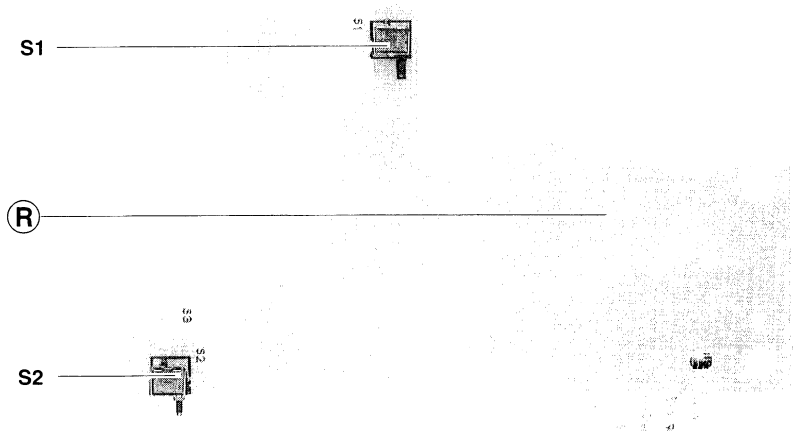
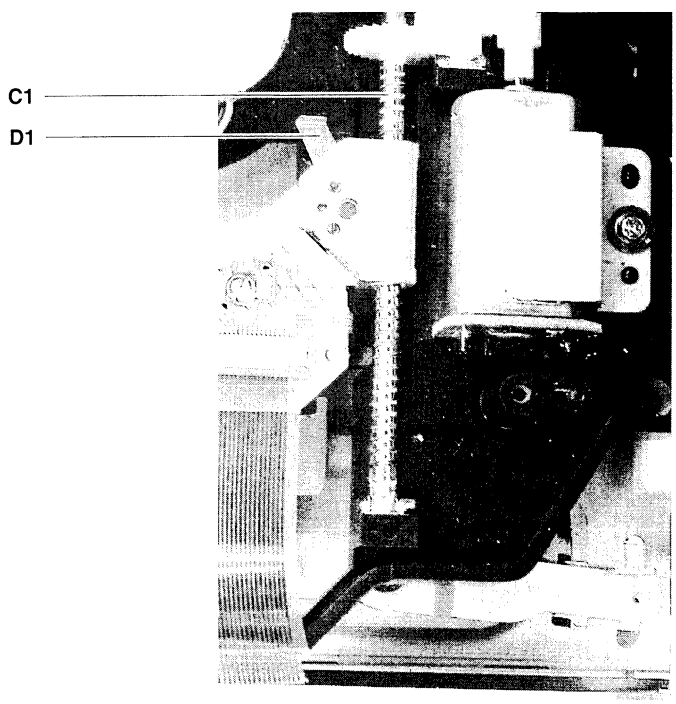


Fig 8b

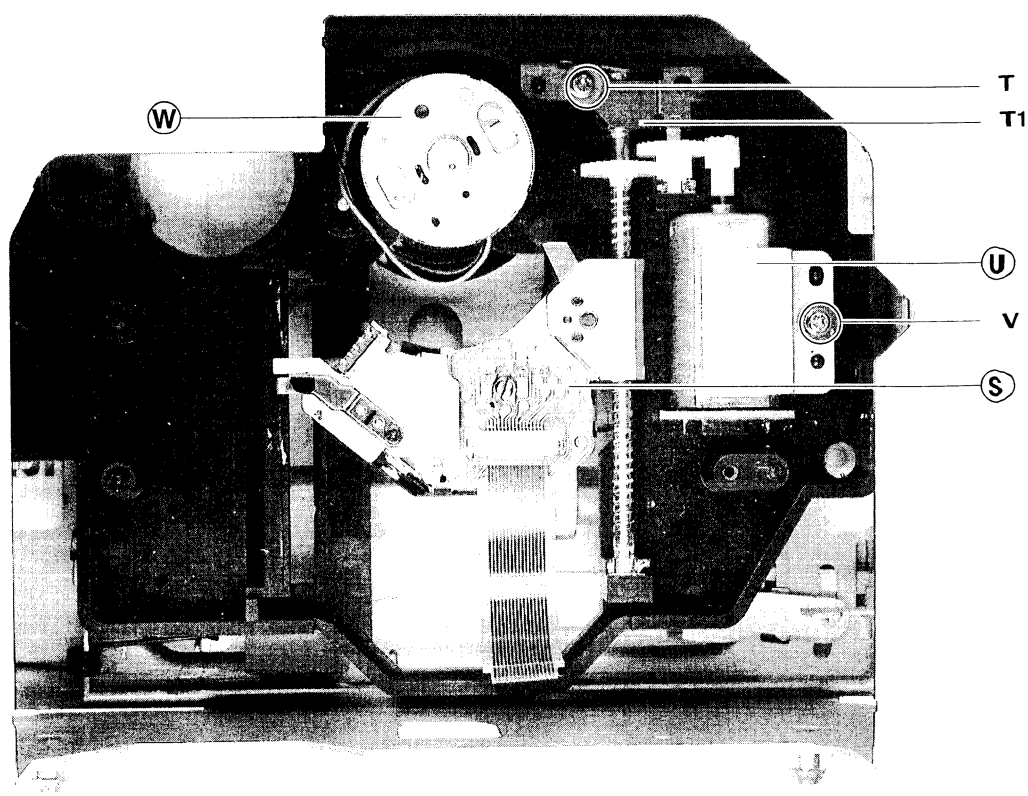


(D) 5. Demontage Lasereinheit und Laser-Antriebsmotor

(GB) 5. Disassembly of laser unit and sled motor

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Laser (S), Laser unit (S)			
Schraube (T) Srew (T)	abschrauben unscrew		9
Hebel (T1) Lever (T1)	entfernen remove		9
Laser (S) Laser (S)	9	Lasereinheit (S) mit der Seite zur Antriebsachse zuerst vorsichtig nach oben entnehmen. Carefully lift out the laser unit (S) with the side towardsthe drive shaft first.	
Laser-Antriebsmotor (U), Sled motor (U)			
Schraube (V) Screw (V)	abschrauben unscrew		9
Laser-Antriebsmotor (U) Sled motor (U)		Laser-Antriebsmotor (U) vorsichtig nach oben entnehmen. Carefully lift out sled motor (U).	9

Fig 9



(D) 6. Demontage Plattentellermotor

(GB) 6. Disassembly of spindle motor

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Plattentellermotor (W), Spindle motor (W)			
Schraube (X) Srew (X)	abschrauben unscrew		10
Hebel (X2) Lever (X2)	entfernen remove		10
Schrauben (2xZ) Screws (2xZ)	abschrauben (durch Löcher im Plattenteller) unscrew (through holes in the turntable)		11
Plattentellermotor (W) Spindle motor (W)		Plattentellermotor (W) vorsichtig entnehmen. Carefully extract the spindle motor (W) .	9

Fig 10

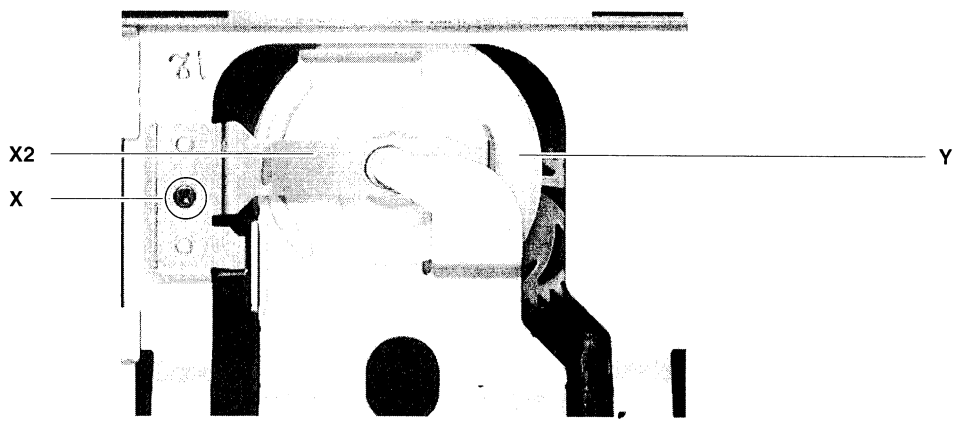
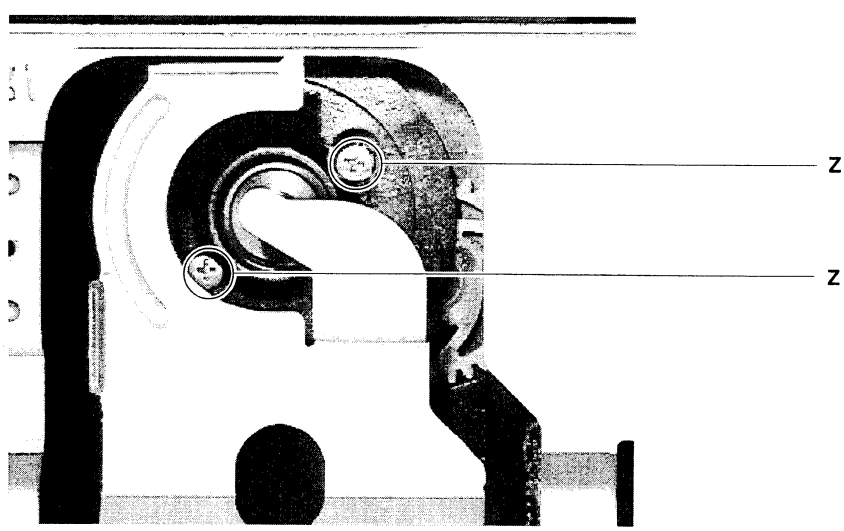


Fig 11



(D) 7. Demontage Positions - Geber (LPS)

(GB) 7. Disassembly Linear position sensor (LPS)

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
LPS			
Schrauben (2xA3) Screws (2xA3)	abschrauben unscrew		12
LPS LPS		LPS vorsichtig nach oben entnehmen. Carefully lift out the LPS.	12
Hebel (C3), Lever (C3)			
Schrauben (2xB3) Screws (2xB3)	abschrauben unscrew		12a
Hebel Lever	entfernen remove		12a

Fig 12

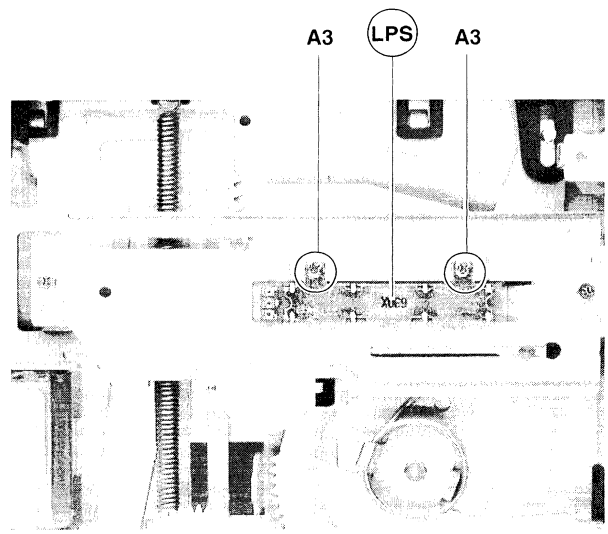
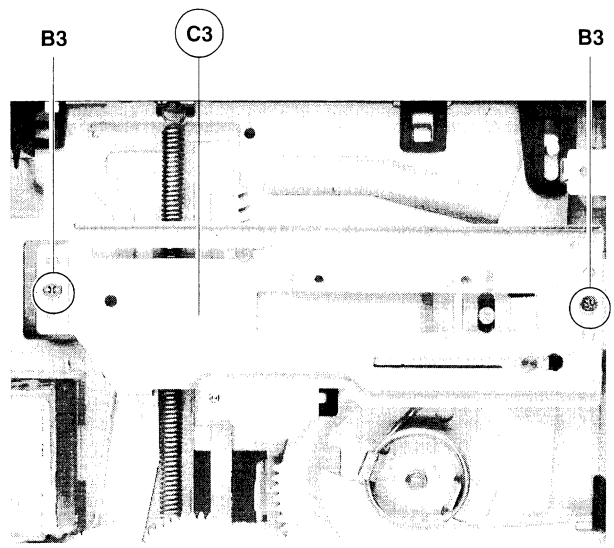


Fig 12a



(D) 7.1 Montage Positions - Geber (LPS)

Achten Sie bei der Montage des Positions - Geber (LPS) darauf, daß der Führungspin (E3) in die dafür vorgesehene Aussparung (F3) eingebaut wird (Fig 12a + 12b).
Achten Sie bei der Montage des Hebels (C3) darauf, daß der Führungspin (G3) in die dafür vorgesehene Aussparung (H3) eingebaut wird (Fig 12c).

(GB) 7.1 Assembly of Linear position sensor (LPS)

When reassembling the LPS take care that guide pin (E3) fits into the provided slot (F3), see fig 12a + 12b.
When reassembling lever (C3) take care that the guide pin (G3) fits into the provided slot (H3), see fig 12c.

Fig 12a

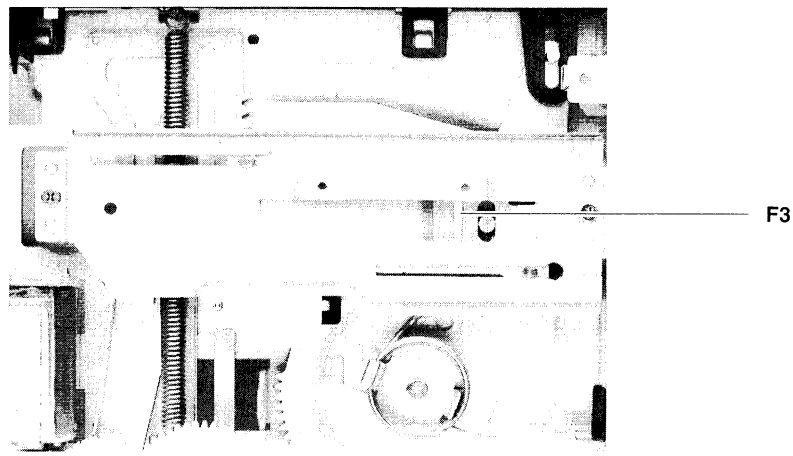


Fig 12b

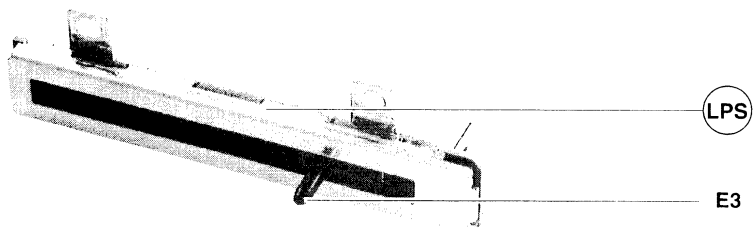
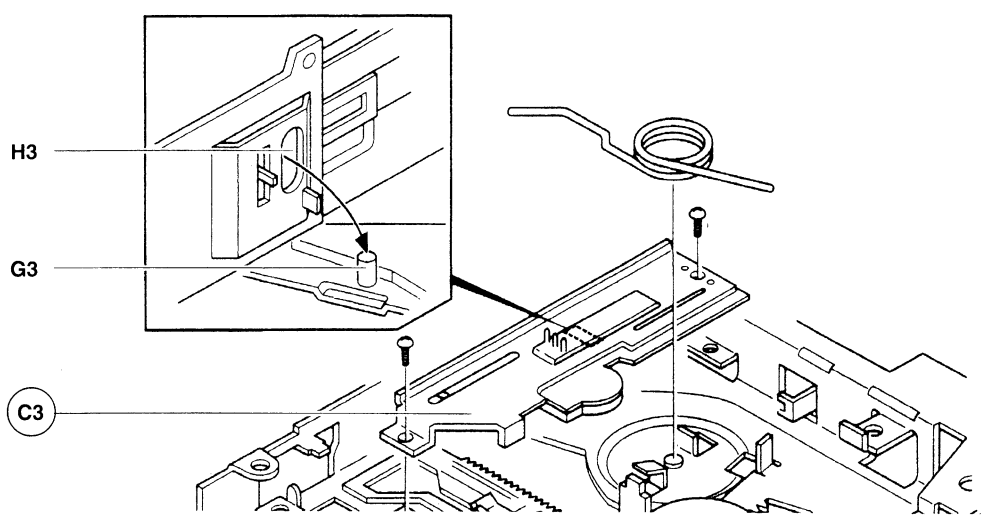


Fig 12c

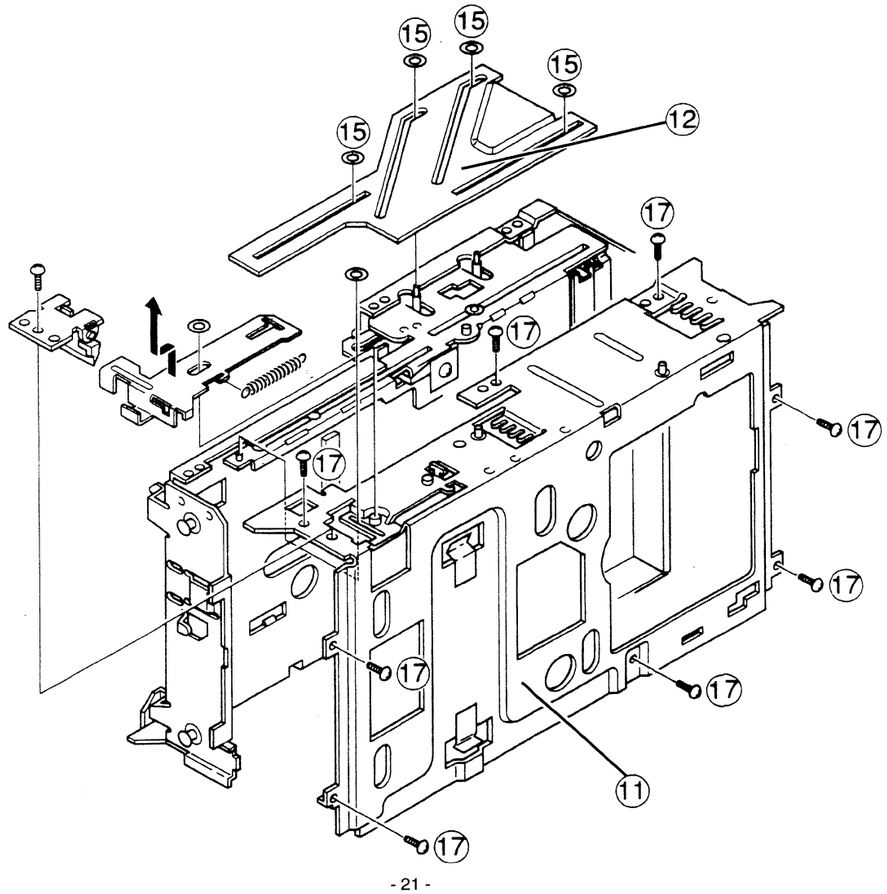


(D) 8. Demontage Chassis

(GB) 8. Disassembly of Chassis

Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
Chassis (11), Chassis (11)			
Signalplatine Signal p. c. board	entfernen remove	Kapitel 3 Chapter 3	7, 7a
Laserplatine Laser p. c. board	entfernen remove	Kapitel 4 Chapter 4	8
Plastikscheiben 4 x (15) Plastic washers 4 x (15)	entfernen remove		13
Hebel (12) Lever (12)		Hebel (12) vorsichtig abnehmen. Carefully extract lever (12).	13
Schrauben 8 x (17) Screws 8 x (17)	abschrauben unscrew		13
Chassis (11) Chassis (11)		Chassis (11) vorsichtig demontieren. Carefully disassemble the chassis (11).	13

Fig 13

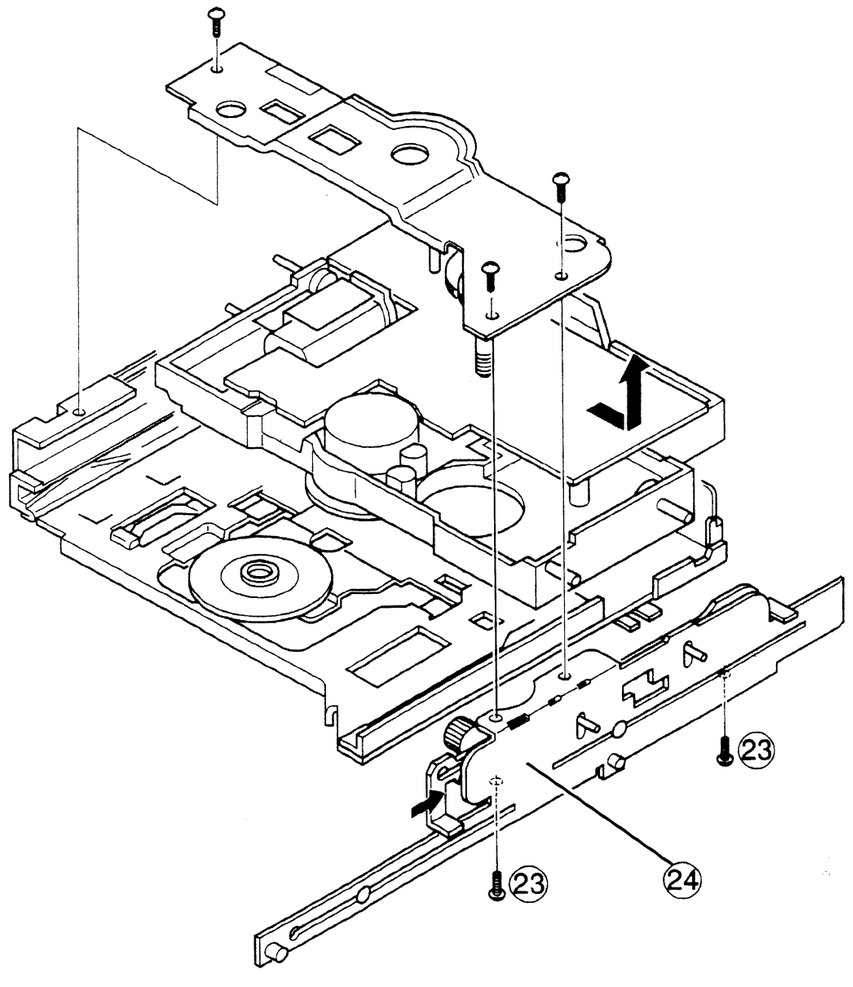


(D) 9. Demontage CD Einzug

(GB) 9. Disassembly CD insert mechanism

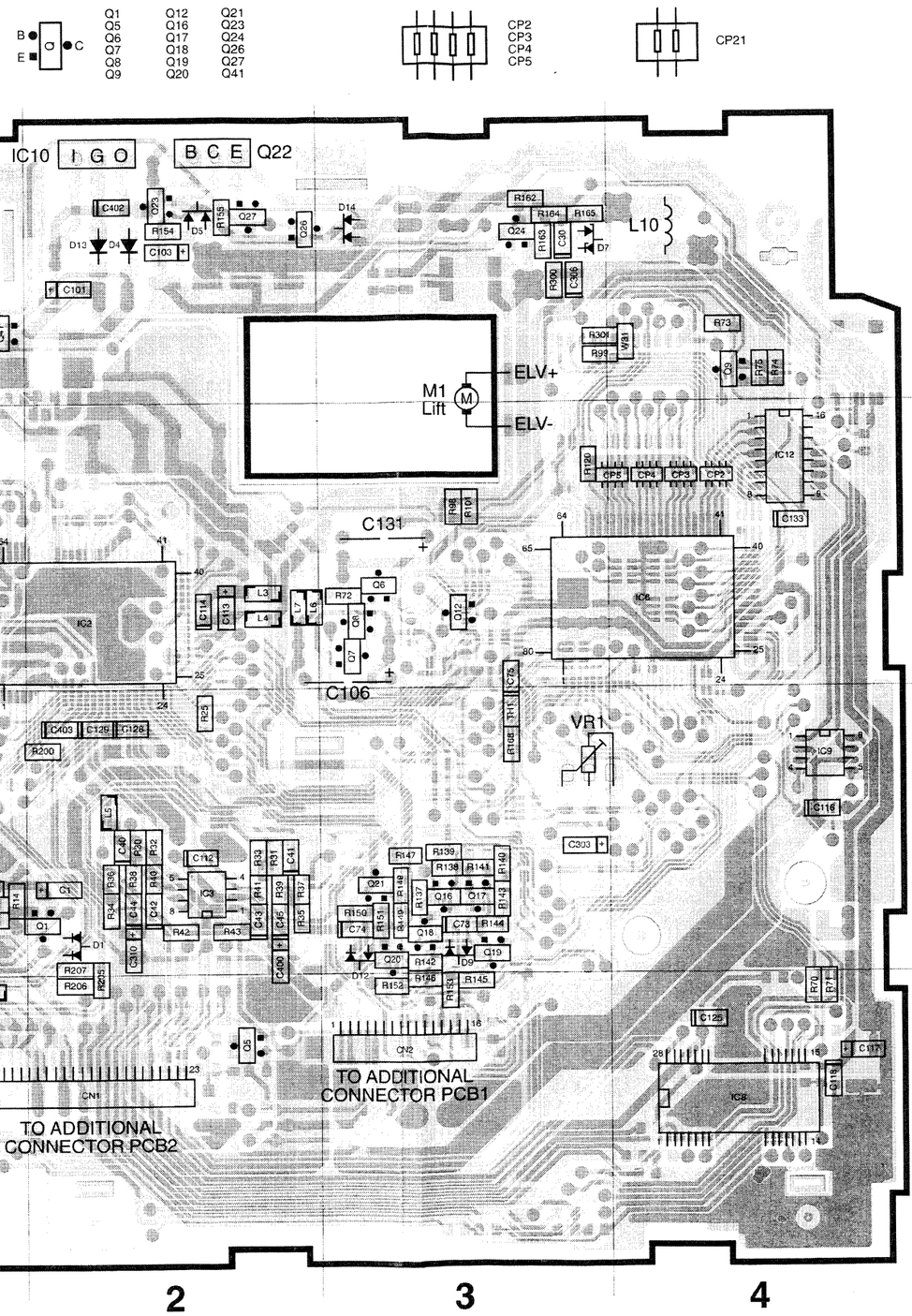
Demontageschritte Disassembly steps	Entfernen, entriegeln, abziehen Remove, unlock, disconnect	Bemerkungen Remarks	Fig. Fig.
CD-Einzug (24), CD insert mechanism (24)			
Schrauben 2 x (23) Screws 2 x (23)	abschrauben unscrew		14
CD-Einzug (24) CD insert mechanism (24)		CD-Einzug (24) vorsichtig demontieren Carefully disassemble the CD insert mechanism.	14

Fig 14



CDC - Hauptplatte
CDC - Main board

+Chip

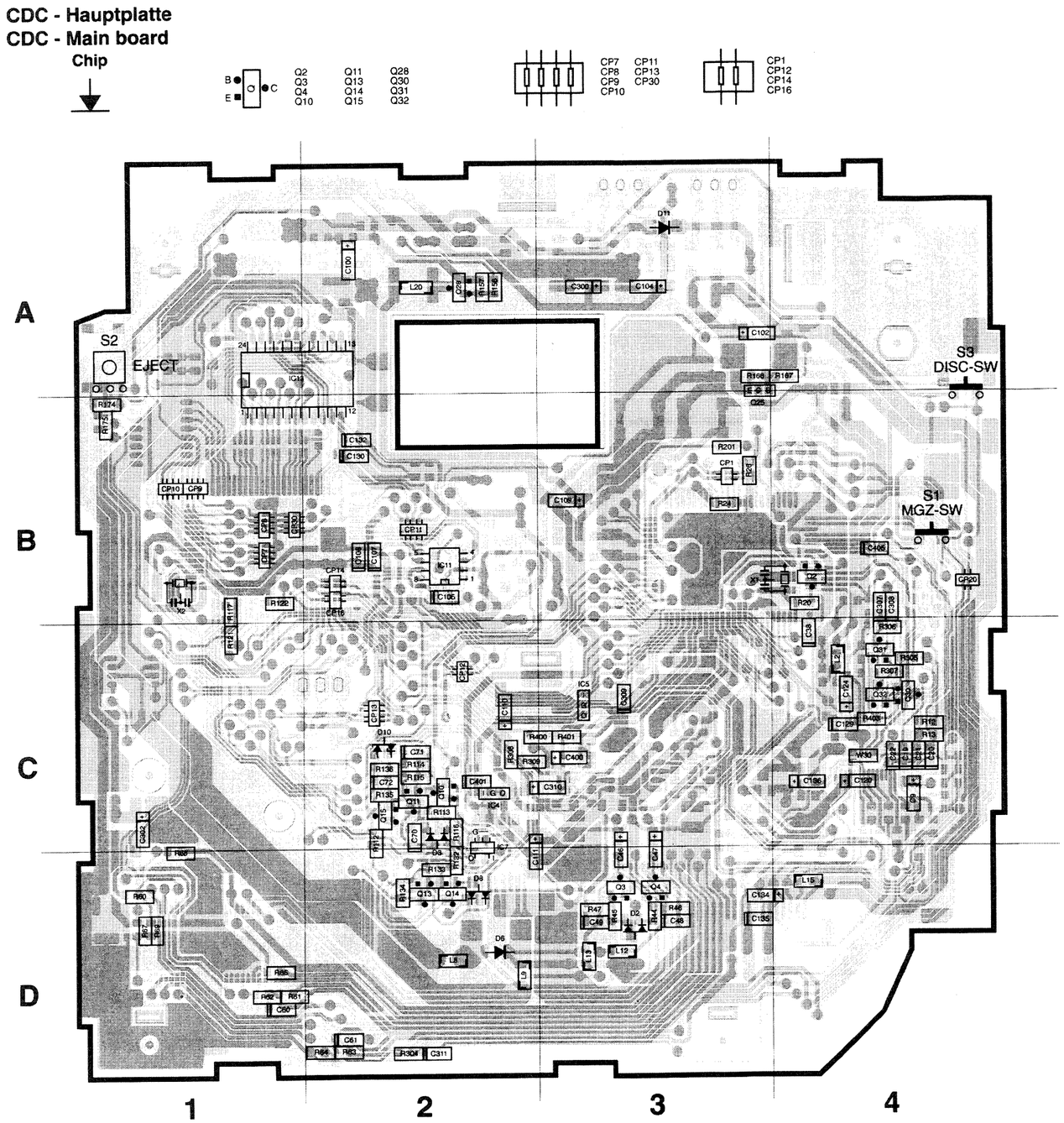


CN1
1 = PD2
2 = PD1
3 = E
4 = PD
5 = VR
6 = GND
7 = LD
8 = NC
9 = VCC
10 = VREF
11 = F
12 = AL
13 = T-
14 = T+
15 = F-
16 = F+
17 = SP-
18 = SP+
19 = SL-
20 = SL+
21 = LOESW
22 = MGND
23 = LIMSW

CN2
1 = U -CDC
2 = U -CDC
3 = NC
4 = LINE OUT R
5 = AF-GND
6 = LINE OUT L
7 = SWITCH +12V
8 = GND
9 = GND
10 = NC
11 = NC
12 = I^2 C -CLOCK / ASCI Rx
13 = I^2 C -DATA / ASCI Tx
14 = NC
15 = NC
16 = NC

CDC - Hauptplatte
CDC - Main board

Chip



AUDIO PREAMPLIFIER

IC3 1/2 NJM4565M

IC3 2/2 NJM4565M

IC2 UPD63702

DIGITAL SERVO DATA PROCESSOR

IC1 UPC2572A

RF-AMP. ERROR-AMP

IC6 M38067MCD

SYSTEM PROCESSOR

MEMORY IC

IC11 BR93LC46AF

IC12 TC74HC238AF

IC13 LH5116HN-10

I²C / ASCI INTERFACE

RESET

CHANGER ON = HIGH

MUTE=LOW

TO CAR RADIO

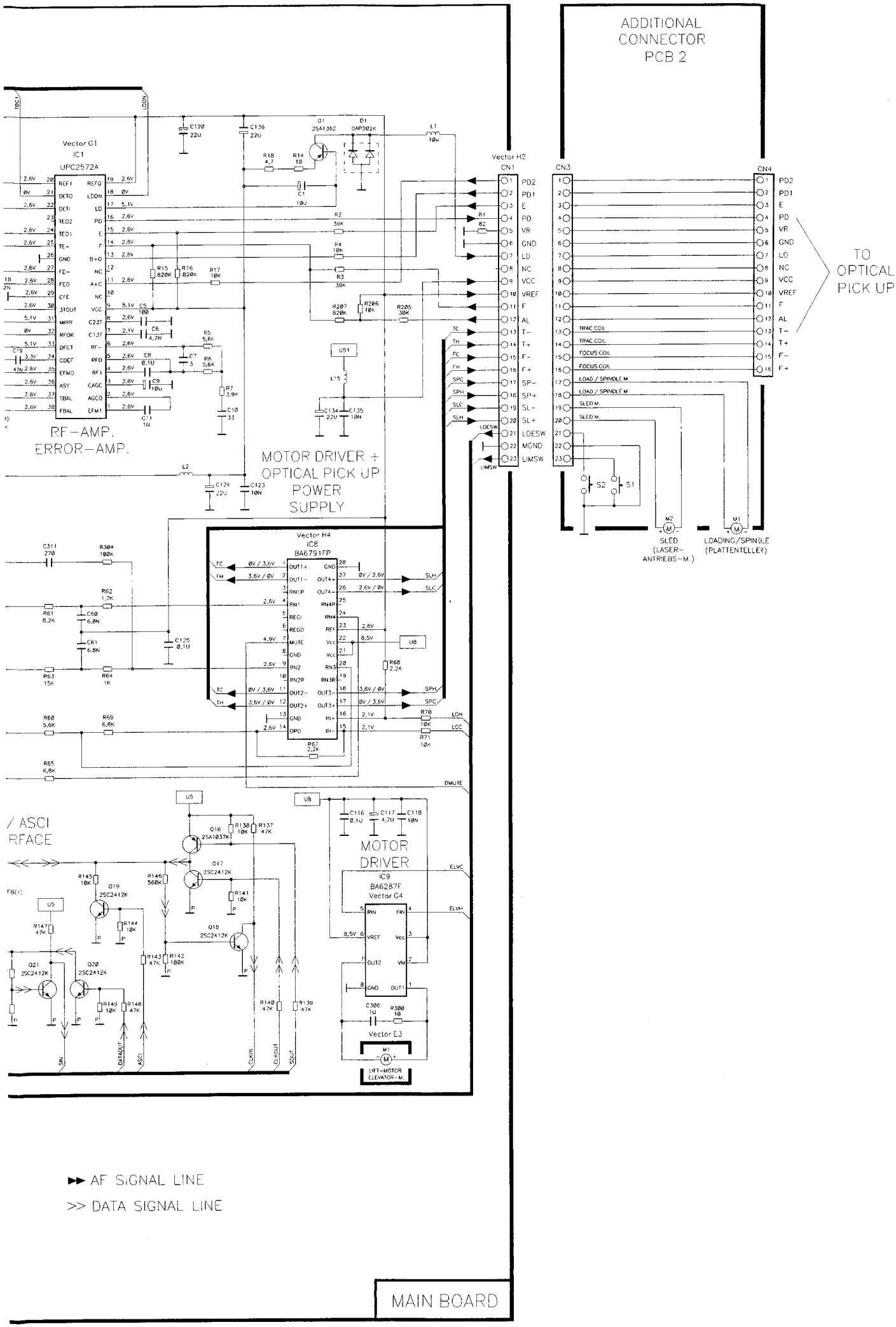
ADDITIONAL CONNECTOR PCB 1

CN5

CN2

I²C-CLOCK / ASCI RX

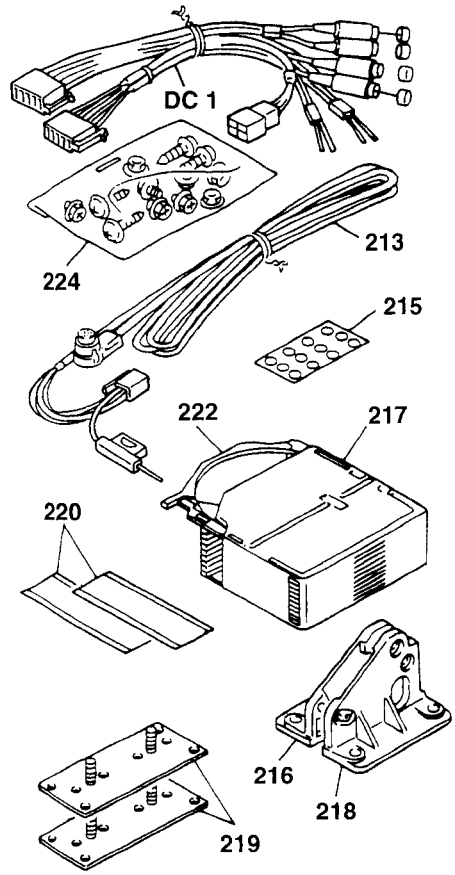
I²C-DATA / ASCI TX


ADDITIONAL
CONNECTOR
PCB 2
TO
OPTICAL
PICK UP
RF-AMP.
ERROR-AMP.
MOTOR DRIVER +
OPTICAL PICK UP
POWER
SUPPLY
MOTOR
DRIVER
SLED
(LASER-
ANTRIEBS-M.)
LOADING/SPINDLE
(PLATTENTELLER)
LIFT-MOTOR
ELEVATOR-M.
MAIN BOARD
AF SIGNAL LINE
DATA SIGNAL LINE

ET Liste / Spare part list

Wichtige mechan. Bauteile (Beipack)
Composants mécaniques importants (Cale)

Important mechanical components (Supplement)
Componentes mecánicos importantes (Complemento)



Position Position Position Posición	Bestell-Nr. Part no. No. de commande Número de pedido
ME 213	8 619 000 288
ME 215	8 619 000 344
ME 216	8 619 000 345
ME 217	8 619 000 346
ME 218	8 619 000 347
ME 219	8 619 000 348
ME 220	8 619 309 216
ME 222	8 619 000 349
ME 224	8 619 000 350
DC 1	8 619 000 289

Elektrische Bauteile (Zusatzplatte)
Electrical components (Sub circuit board)
Composants électriques (Platine Auxiliaire)
Componentes electricos (Placa Auxiliar)
8 619 001 000 (Explo 1, ME 725)

Position Position Position Posición	Bezeichnung Designation Déomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
CN 1		8 619 000 326
J 1		8 619 000 327

Elektrische Bauteile (Zusatzplatte)
Electrical components (Sub circuit board)
Composants électriques (Platine Auxiliaire)
Componentes electricos (Placa Auxiliar)
8 619 001 001 (Explo 2, ME 876)

Position Position Position Posición	Bezeichnung Designation Déomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
CN 1		8 619 000 329
CN 2		8 619 000 330
S 1		8 619 000 332
S 2		8 619 000 332

Elektrische Bauteile (CD-Signalplatte)
Electrical components (CD signal-board)
Composants électriques (Plaquette de signal CD)
Componentes electricos (Placa de señal CD)
8 619 001 002 (Explo 2, ME 877)

Position Position Position Posición	Bezeichnung Designation Déomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
CN 1		8 619 000 351
CN 2		8 619 000 352
C 107	0,047 F / 5,5 V	8 619 000 353
C 130	0,047 F / 5,5 V	8 619 000 353
D 1	DAP 202K	8 925 405 564
D 2	DAP 202K	8 925 405 564
D 3	DAP 202K	8 925 405 564
D 4	1SR154-400	8 619 000 383
D 5	UZM9.1FB	8 619 000 384
D 6	1SR154-400	8 619 000 383
D 7	UZM5.1FB	8 619 000 385
D 8	DAP 202K	8 925 405 564
D 9	UZM5.6FB	8 619 000 386
D 10	UZM4.7FB	8 619 000 387
D 11	1SR154-400	8 619 000 383

Position Position Position Posición	Bezeichnung Designation Déomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
D 12	UZM5.6FB	8 619 000 386
D 13	1SR154-400	8 619 000 383
D 14	DAN 202K	8 619 000 388
IC 1	UPC2572A	8 619 000 366
IC 2	UPD63702	8 619 000 367
IC 3	NJM4565MD	8 925 901 312
IC 4	TA78L05F	8 945 990 005
IC 5	TA78L09F	8 619 000 368
IC 6	M38067MCD171FP	8 619 000 369
IC 7	PST9140NR	8 619 000 370
IC 8	BA6791FP	8 619 000 371
IC 9	BA628F	8 619 000 372
IC 10	M5278D05	8 925 901 314
IC 11	BR93LC46AF	8 619 000 373
IC 12	TC74HC238AF	8 619 000 374
IC 13	LH5116HN-10	8 619 000 375
IC 14	AK93C45AF	8 619 000 376
L 1		8 619 339 607
L 2 -		
L 7		8 619 000 377
L 8		8 619 000 378
L 9		8 619 000 378
L 10		8 619 000 379
L 11-		
L 15		8 619 000 377
Q 1	2 SA 1362 Y	8 945 706 006
Q 2	DTC124EK	8 945 705 852
Q 3	2 SD 2114K	8 945 706 239
Q 4	2 SD 2114K	8 945 706 239
Q 5	DTA 124 EK	8 945 705 849
Q 6	2 SA 1362 Y	8 945 706 006
Q 7	XDA124EK	8 619 000 380
Q 8	XDC124EK	8 619 000 381
Q 9	2 SC 3437	8 925 705 654
Q 10	XDA124EK	8 619 000 380
Q 12	DTA114EK	8 945 706 240
Q 13	XDC124EK	8 619 000 381
Q 14	XDA124EK	8 619 000 380
Q 15	2 SC 2412K	8 925 820 029
Q 16	2 SA 1037K	8 925 820 027
Q 17 -		
Q 21	2 SC 2412K	8 925 820 029
Q 22	2 SB 1565	8 619 000 382
Q 23	2 SC 2412K	8 925 820 029
Q 24	2 SC 2412K	8 925 820 029
Q 25	2 SB 1188	8 925 705 653
Q 26	DTC124EK	8 945 705 852
Q 27	DTA143EK	8 945 706 241
Q 28	2 SA 1362	8 945 706 006
S 1		8 619 000 391
S 2		8 619 000 392
S 3		8 619 000 391

Position Position Position Posición	Bezeichnung Designation Déomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
TH 1	NTC	8 940 599 836
X 1		8 619 000 389
X 2		8 619 000 390

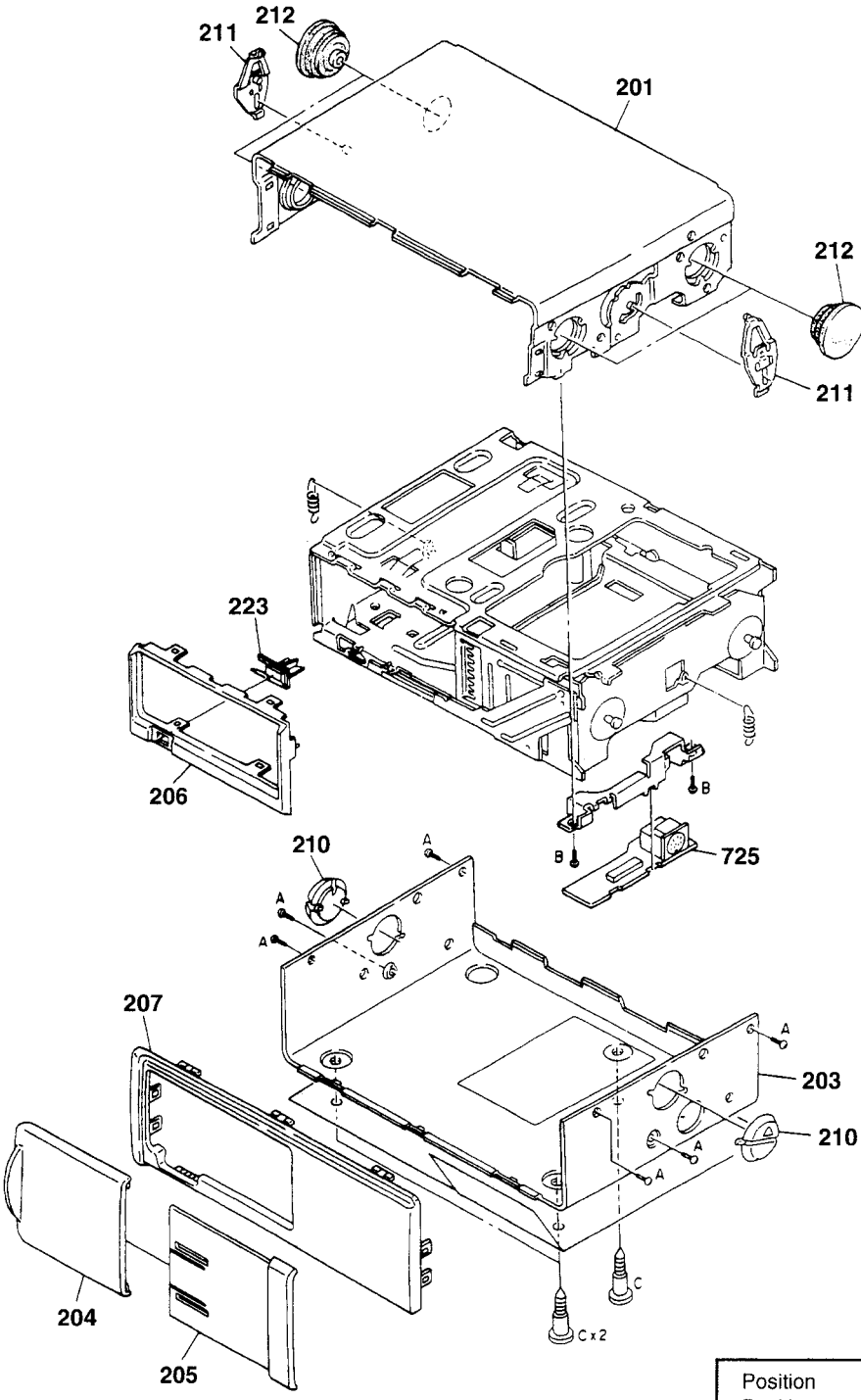
Hinweis:
Handelsübliche Kondensatoren und Widerstände sind in der Ersatzteilliste nicht aufgeführt. Wir bitten Sie, diese Teile im Fachhandel zu beziehen.

Nota:
Des condensateurs et résistaces commerciaux ne sont pas inclus dans la liste des pièces détachées. Veuillez acheter ces pièces chez votre spècialiste.

Note:
Capacitors and resistors usual in trade are not mentioned in the spare parts list. Kindly buy these parts from the specialized trade.

Nota:
No se indican en la lista de piezas de requestos los condensatores y los resistores de uso comercial. Les rogamos comprar esas piezas en el comercio especializado.

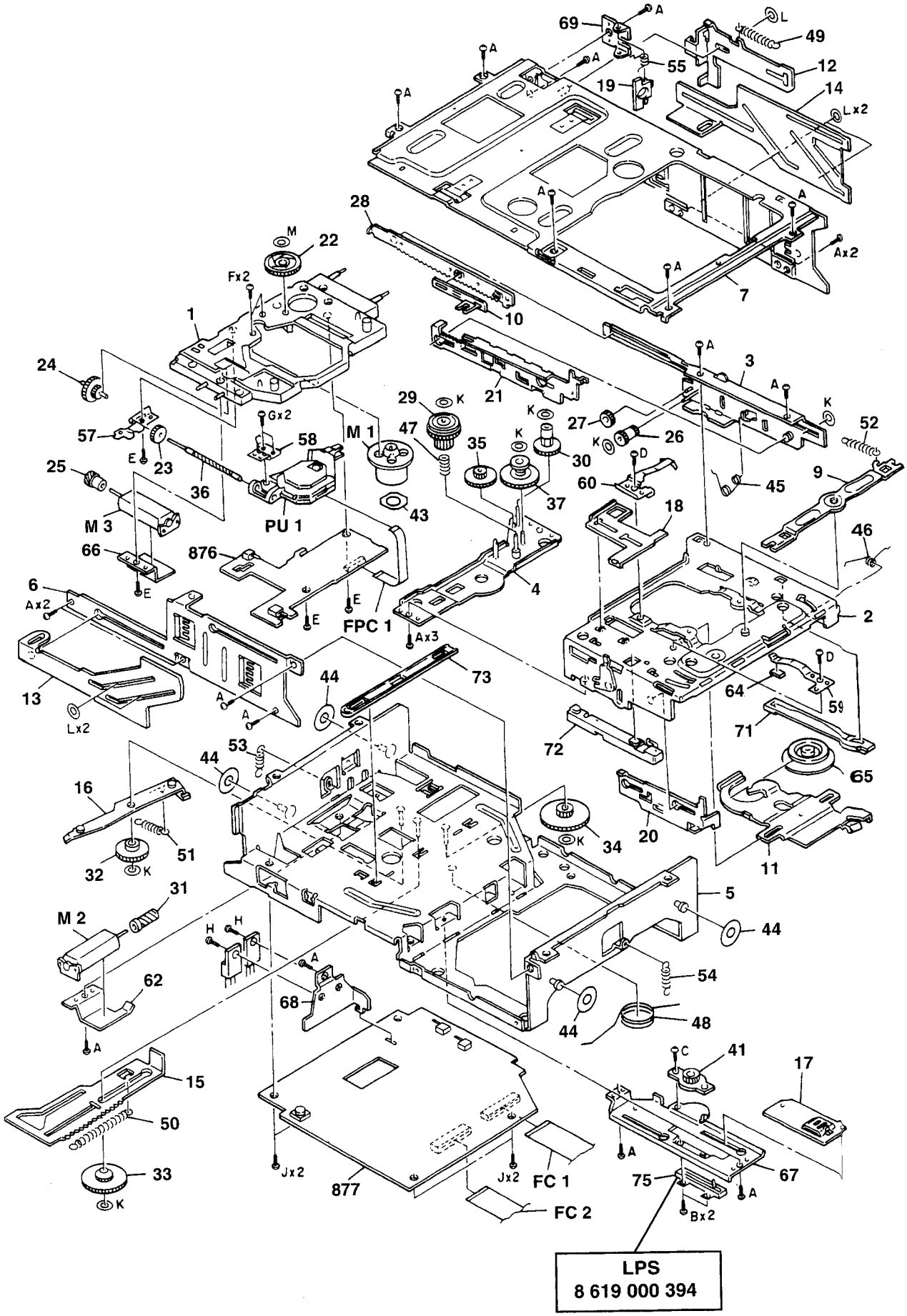
Explo 1 - Gehäuseteile
Exploded view 1 - casing parts
Vue éclatée 1 - pièces de boitier
Vista desarrolada 1 - piezas de la caja



Position Position Position Posición	Bestell-Nr. Part no. No. de commande Número de pedido
ME 201	8 619 000 333
ME 203	8 619 000 334
ME 204	8 619 000 335
ME 205	8 619 000 336
ME 206	8 619 000 337
ME 207	8 619 000 338
ME 210	8 619 000 339
ME 211	8 619 000 340
ME 212	8 619 000 341
ME 223	8 619 000 342
ME 725	8 619 001 000

A = ø 2.6 x 6 (BLK)
B = ø 2 x 4
C = ø 4

Explo 2 - Chassis
Exploded view 2 - chassis
Vue éclatée 2 - châssis
Vista desarrolada 2 - chasis



H = M2 x 5

Position Position Position Posición	Bestell-Nr. Part no. No. de commande Número de pedido
ME 1	8 619 000 412
ME 2	8 619 000 413
ME 3	8 619 000 414
ME 4	8 619 000 [illegible]
ME 5	8 619 000 [illegible]
ME 6	8 619 000 417
ME 7	8 619 000 418
ME 9	8 619 000 419
ME 10	8 619 000 420
ME 11	8 619 000 421
ME 12	8 619 000 422
ME 13	8 619 000 423
ME 14	8 619 000 424
ME 15	8 619 000 425
ME 16	8 619 000 426
ME 17	8 619 000 427
ME 18	8 619 000 428
ME 19	8 619 000 429
ME 20	8 619 000 430
ME 21	8 619 000 431
ME 22	8 619 000 432
ME 23	8 619 000 433
ME 24	8 619 000 434
ME 25	8 619 000 435
ME 26	8 619 000 436
ME 27	8 619 000 437
ME 28	8 619 000 438

Position Position Position Posición	Bestell-Nr. Part no. No. de commande Número de pedido
ME 29	8 619 000 439
ME 30	8 619 000 440
ME 31	8 619 000 441
ME 32	8 619 000 442
ME 33	8 619 000 443
ME 34	8 619 000 444
ME 35	8 619 000 445
ME 36	8 619 000 446
ME 37	8 619 000 447
ME 41	8 619 000 448
ME 43	8 619 000 449
ME 44	8 619 000 450
ME 45	8 619 000 451
ME 46	8 619 000 452
ME 47	8 619 000 453
ME 48	8 619 000 454
ME 49	8 619 000 455
ME 50	8 619 000 456
ME 51	8 619 000 457
ME 52	8 619 000 458
ME 53	8 619 000 459
ME 54	8 619 000 460
ME 55	8 619 000 461
ME 57	8 619 000 462
ME 58	8 619 000 463
ME 59	8 619 000 464
ME 60	8 619 000 465
ME 62	8 619 000 466

Position Position Position Posición	Bestell-Nr. Part no. No. de commande Número de pedido
ME 64	8 619 000 467
ME 65	8 619 000 468
ME 66	8 619 000 469
ME 67	8 619 000 470
ME 68	8 619 000 471
ME 69	8 619 000 472
ME 71	8 619 000 473
ME 72	8 619 000 474
ME 73	8 619 000 475
ME 75	8 619 000 394
ME 876	8 619 001 001
ME 877	8 619 001 002
FC 1	8 619 000 395
FC 2	8 619 000 396
FPC 1	8 619 000 397
M 1	8 619 000 398
M 2	8 619 000 411
M 3	8 619 000 411
PU 1	8 619 000 399
A M2x3.5	8 619 000 476
B M2x2.5 (BLK)	8 619 000 477
C M2x5	8 619 000 478
D M 1.7x1.5 (BLK)	8 619 000 479
E ø 2x6	8 619 000 480
F M1.7x3	8 619 000 481
G M1.7x2.2	8 619 000 482
J ø 2x3.5	8 619 000 483
K ø 1.6x4	8 619 000 484
L ø 2x5	8 619 000 485
M ø 1.6x3.5	8 619 000 486

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